

Fig. 1a

Fig. 1b

FIG. 2 is a schematic diagram of a system for providing a service to a user device.

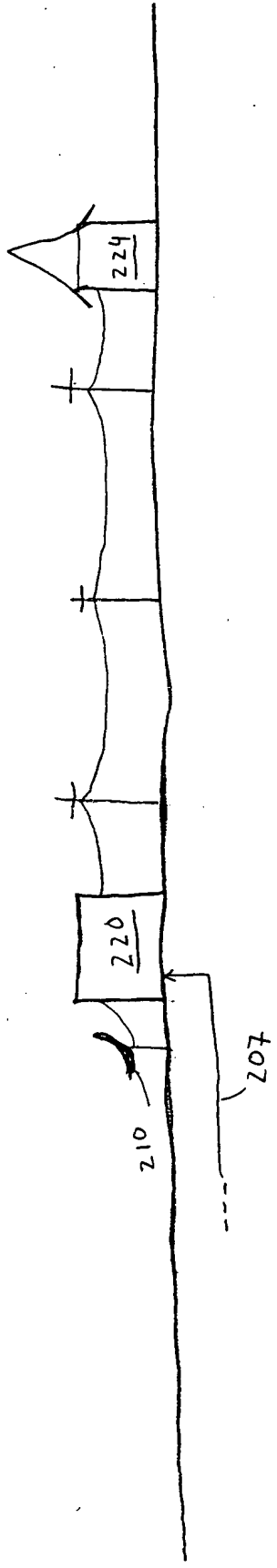
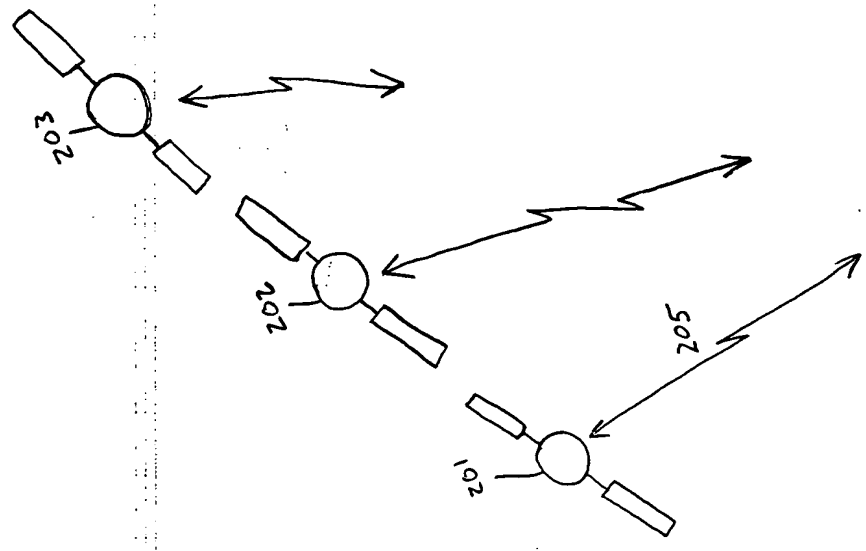


FIG. 2

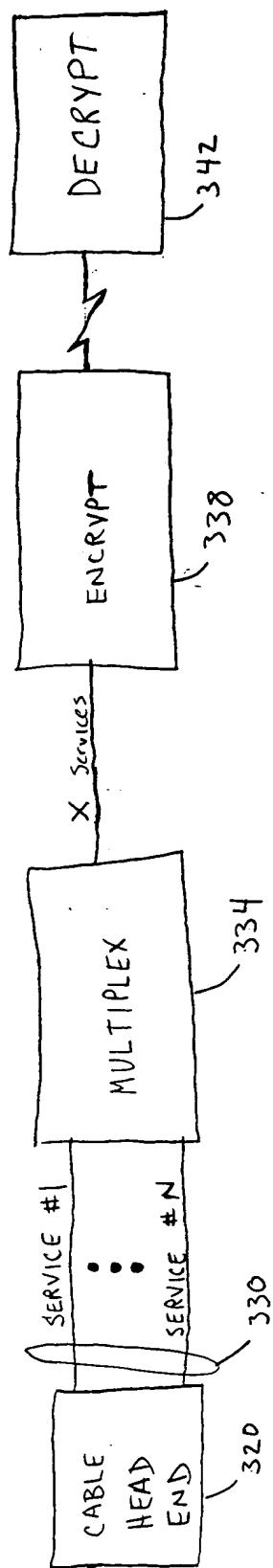


FIG. 3

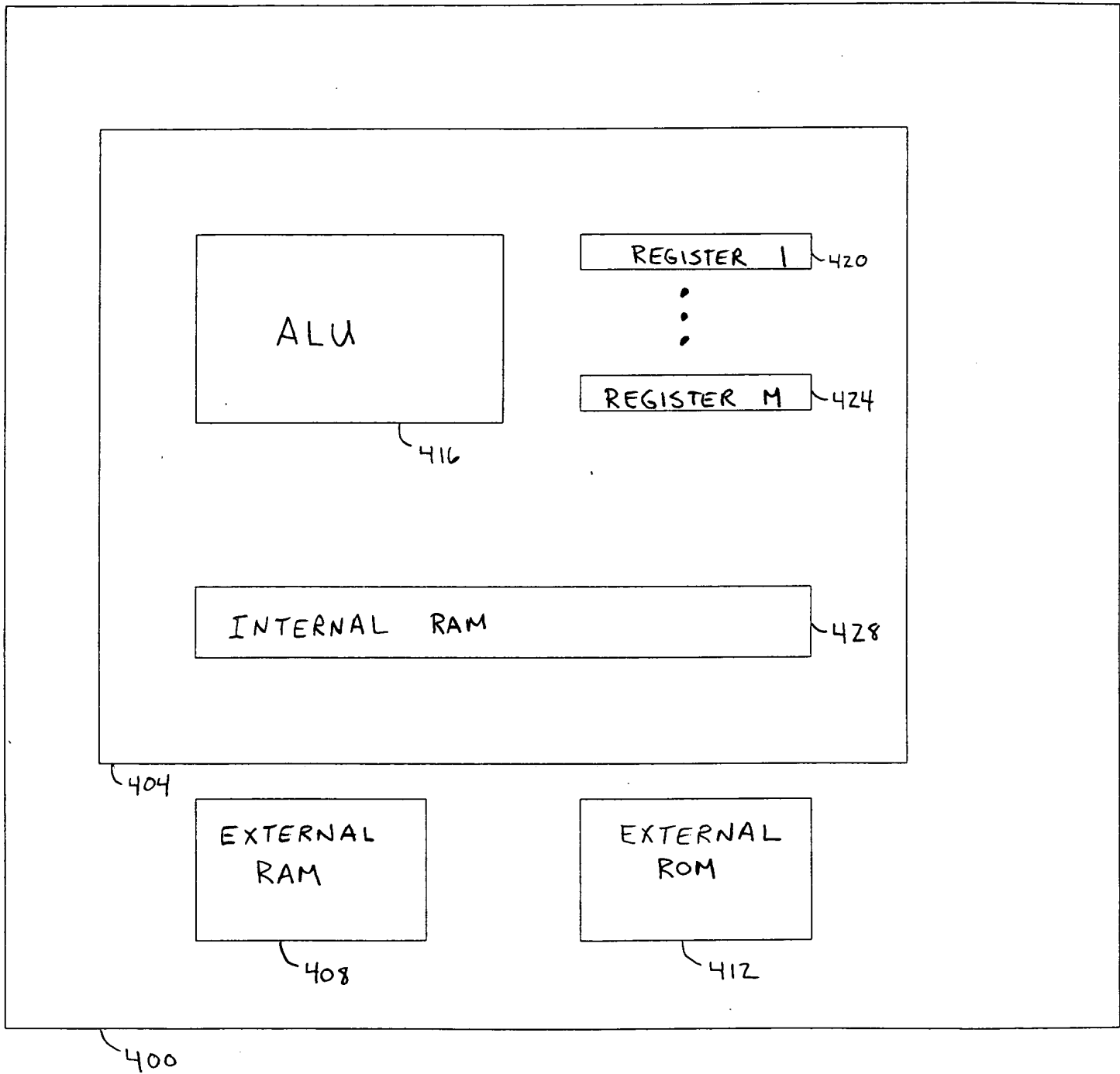


FIG. 4

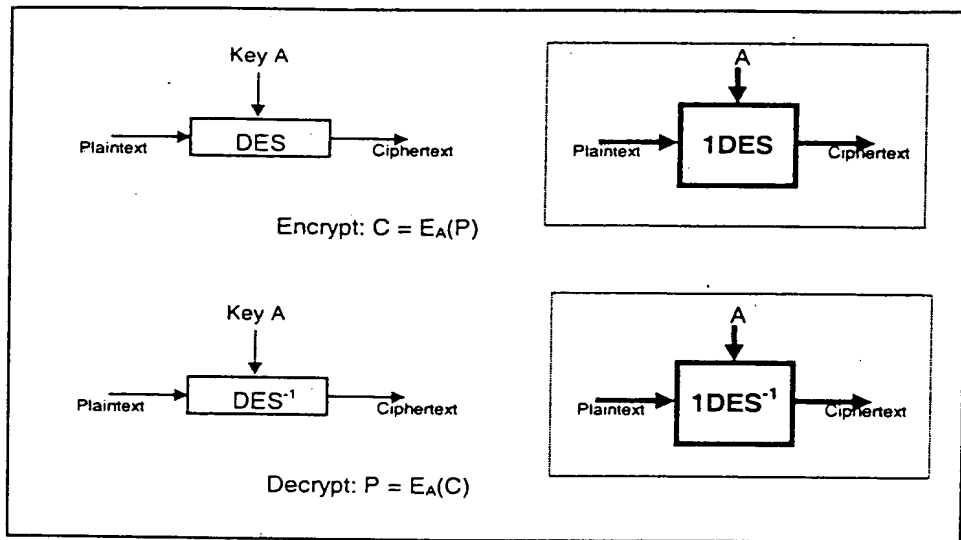


FIG. 5

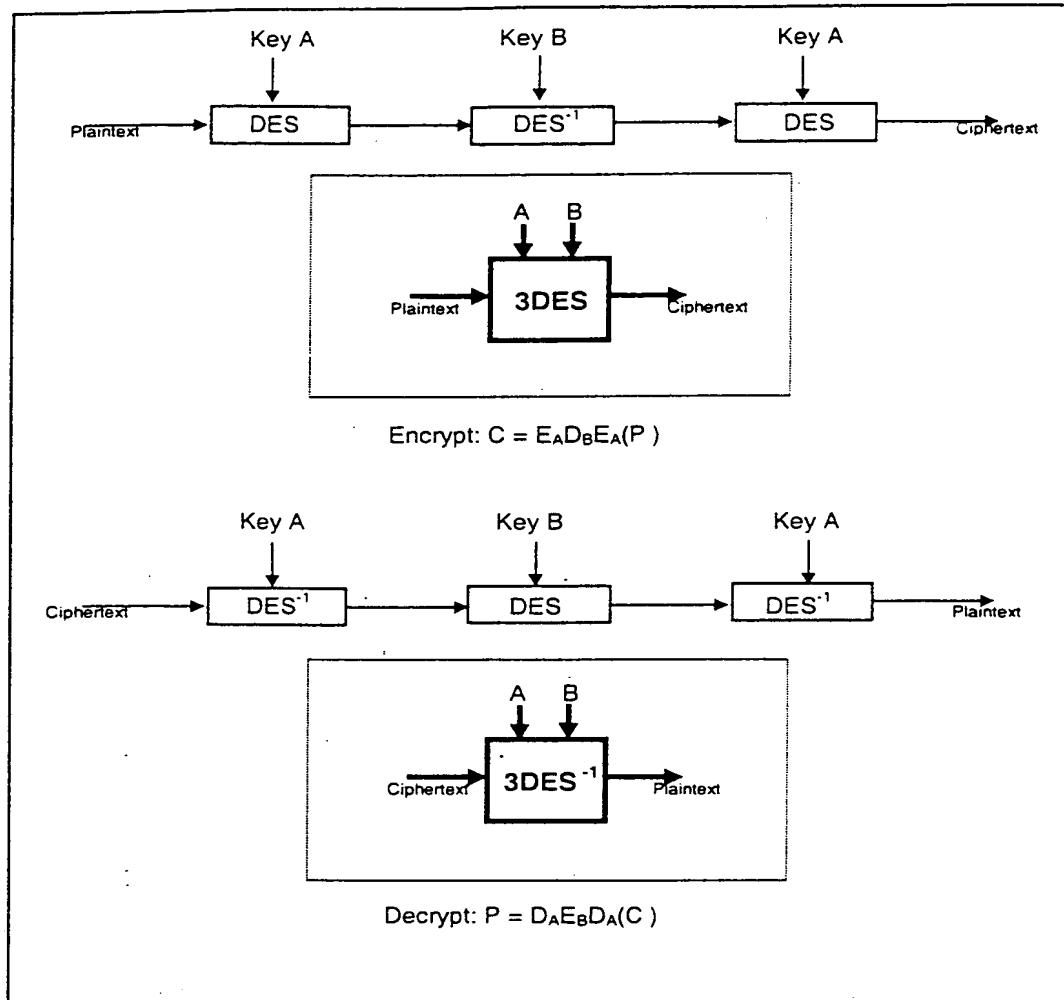


FIG. 6

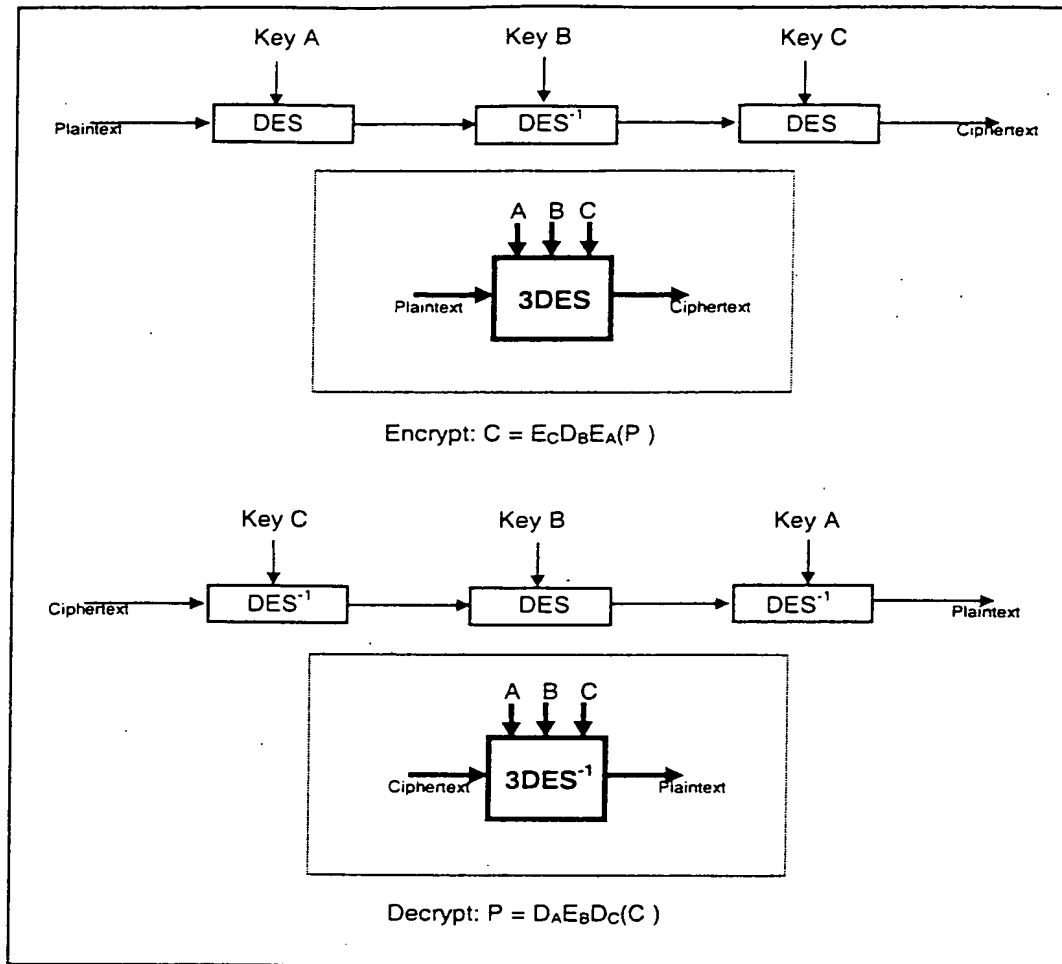


FIG. 7

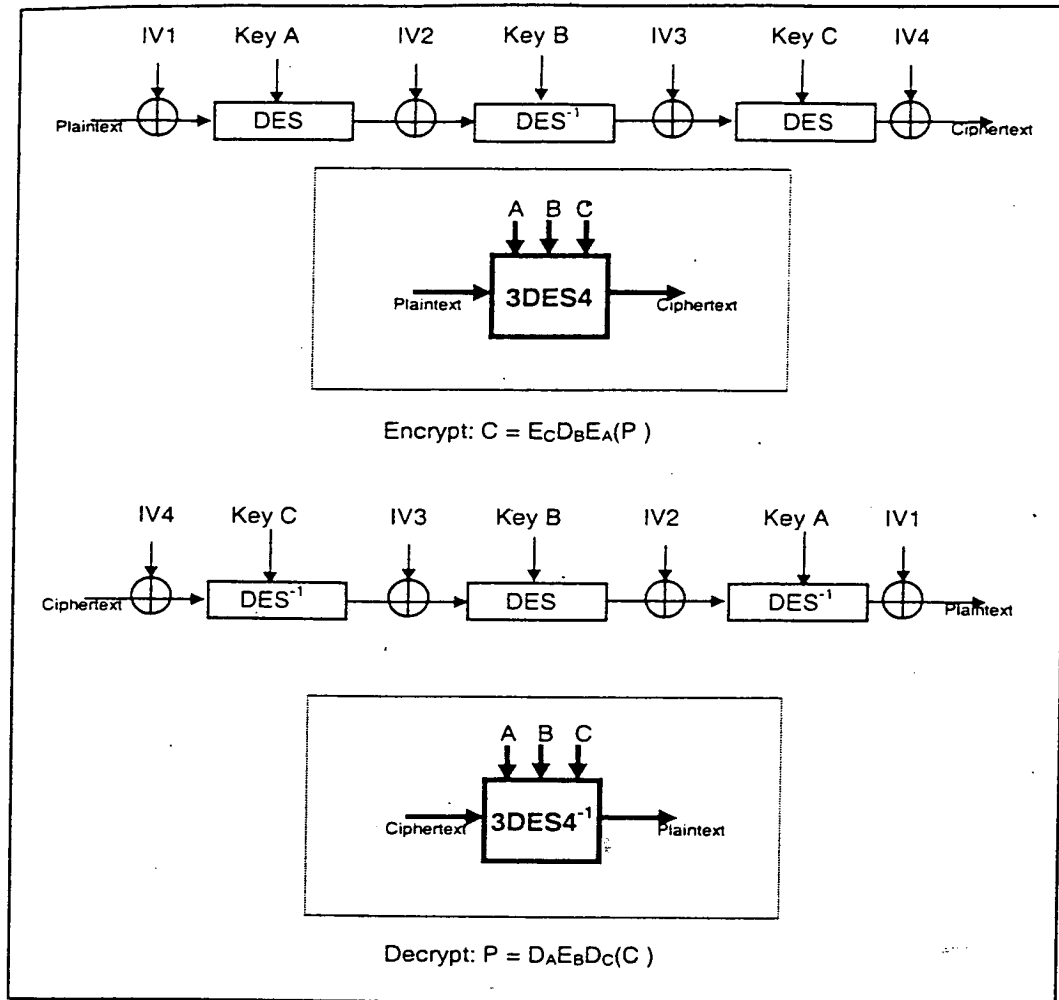


FIG. 8



FIG. 9a

**Single DES**  
(16 services)  
Mode - 00

	C-IV
	N-IV
S 0	C-A-0
	N-A-0
S 1	C-A-1
	N-A-1
S 2	C-A-2
	N-A-2
S 3	C-A-3
	N-A-3
S 4	C-A-4
	N-A-4
S 5	C-A-5
	N-A-5
S 6	C-A-6
	N-A-6
S 7	C-A-7
	N-A-7
S 8	C-A-8
	N-A-8
S 9	C-A-9
	N-A-9
S 10	C-A-10
	N-A-10
S 11	C-A-11
	N-A-11
S 12	C-A-12
	N-A-12
S 13	C-A-13
	N-A-13
S 14	C-A-14
	N-A-14
S 15	C-A-15
	N-A-15

Fig. 9b

**DES-ABA**  
(8 services)  
Mode - 01

	C-IV
	N-IV
S 0	C-A-0
	N-A-0
	C-B-0
	N-B-0
S 1	C-A-1
	N-A-1
	C-B-1
	N-B-1
S 2	C-A-2
	N-A-2
	C-B-2
	N-B-2
S 3	C-A-3
	N-A-3
	C-B-3
	N-B-3
S 4	C-A-4
	N-A-4
	C-B-4
	N-B-4
S 5	C-A-5
	N-A-5
	C-B-5
	N-B-5
S 6	C-A-6
	N-A-6
	C-B-6
	N-B-6
S 7	C-A-7
	N-A-7
	C-B-7
	N-B-7

Fig. 9c

**DES-ABC**  
(4 Services)  
Mode - 10

	C-IV	
	N-IV	
S 0	C-A-0	0
	N-A-0	
	C-B-0	
	N-B-0	
	C-C-0	
	N-C-0	
not used		7
	C-A-1	8
	N-A-1	
S 1	C-B-1	
	N-B-1	
	C-C-1	
	N-C-1	
not used		15
	C-A-2	16
	N-A-2	
S 2	C-B-2	
	N-B-2	
	C-C-2	
	N-C-2	
not used		23
	C-A-3	24
	N-A-3	
S 3	C-B-3	
	N-B-3	
	C-C-3	
	N-C-3	
not used		31

Fig. 9d

**DES-ABC4**  
(2 services - 4 IVs)  
Mode - 11

not used	
	C-A-0
	N-A-0
	C-B-0
	N-B-0
	C-C-0
	N-C-0
S 0	C-IV0-0
	N-IV0-0
	C-IV1-0
	N-IV1-0
	C-IV2-0
	N-IV2-0
	C-IV3-0
	N-IV3-0
not used	
	C-A-1
	N-A-1
	C-B-1
	N-B-1
	C-C-1
	N-C-1
S 1	C-IV0-1
	N-IV0-1
	C-IV1-1
	N-IV1-1
	C-IV2-1
	N-IV2-1
	C-IV3-1
	N-IV3-1
not used	

Note -

C: current

N: next

S: service

x-x-xx: C/N-Key A/B/C-S